

**AMENDMENTS TO CLAIMS**

Please cancel claims 1-9, 13-23 and 27-28 without prejudice or disclaimer of the subject matter thereof, and amend the claims as follows.

Claims 1-9 (Canceled).

10 (original). A system for removing contaminants from a contaminated air stream received from a surrounding environment to produce purified or ozone enriched air comprising:

a replaceable cartridge disposed within said surrounding environment, wherein said cartridge includes:

an air intake to receive an air stream from the surrounding environment;

an ozone chamber including an ozone generating radiation source for irradiating the air stream to produce ozone to remove contaminants from within the air stream, and ozone distribution means for delaying said air stream by increasing residence time of said air stream in said ozone chamber to facilitate interaction and mixing of the produced ozone with the air stream to enhance removal of contaminants from within the air stream;

a germicidal chamber for receiving said air stream from said ozone chamber and including a germicidal radiation source for irradiating the air stream to remove residual contaminants and ozone therefrom;

an exhaust to return the air stream from said germicidal chamber to the surrounding environment; and

a connector to connect said cartridge to a power source.

11 (original). The system of claim 10 further including:

a base for disposal in said surrounding environment, wherein said base includes:

air flow control means for directing the air stream to flow through said system;  
and  
said power source for interfacing said connector to provide power to said system;  
wherein said replaceable cartridge is removably attached to said base.

12 (original). The system of claim 10 further including an end-cap disposed at an end of said ozone generating radiation source, wherein said end-cap is configured to maintain said ozone generating radiation source away from walls of said cartridge.

Claims 13-23 (Canceled).

24 (original). In an air sterilization system including a replaceable cartridge having an air intake, ozone and germicidal chambers, an exhaust and a connector to connect the cartridge to a power source, a method of removing contaminants from a contaminated air stream received from a surrounding environment to produce purified or ozone enriched air comprising the steps of:

- (a) disposing the cartridge within said surrounding environment;
- (b) interfacing the connector to the power source;
- (c) receiving an air stream into the cartridge from the surrounding environment;
- (d) irradiating the air stream within the ozone chamber to produce ozone to remove contaminants from within the air stream;
- (e) delaying said air stream by increasing residence time of said air stream in said ozone chamber to facilitate interaction and mixing of the produced ozone with the air stream to enhance removal of contaminants from within the air stream;
- (f) irradiating the air stream received from the ozone chamber within the germicidal chamber to remove residual contaminants and ozone therefrom;
- (g) returning the air stream from said germicidal chamber to the surrounding environment; and

(h) periodically replacing the cartridge within the surrounding environment.

25 (original). The method of claim 24 wherein said air sterilization system further includes a base having air flow control means for directing air through said system and said power source, and step (a) further includes:

- (a.1) disposing the base within the surrounding environment;
- (a.2) removably attaching the cartridge to the base; and
- (a.3) directing the air stream through the system via the air flow control means.

26 (original). The method of claim 24 wherein the air sterilization system further includes an end-cap disposed at an end of said ozone generating radiation source, and step (d) further includes:

- (d.1) maintaining said ozone generating radiation source away from walls of said cartridge via said end-cap.

Claims 27-28 (Canceled).